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US 5978386 A US 5430727 A

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Online databases: WPI, EPODOC, JAPIO

(54) Abstract Title Protocol conversion apparatus

(57) A protocol conversion apparatus 600 allows packet data transfer between two apparatuses such as a personal computer (PC) and a mobile telephone which use different protocols, for example a USB protocol and a radio protocol respectively. The PC transmits a radio protocol packet encapsulated in a USB protocol packet. The protocol conversion apparatus decapsulates the radio protocol packet and forwards it to the mobile phone. Radio protocol packets received from the mobile telephone are encapsulated and forwarded to the PC. The PC may select one of a plurality of radio protocols for encapsulation in a USB protocol packet. A packet designating the selected protocol is sent to the apparatus 600. Radio packets above a threshold size may be segmented and individually encapsulated for transfer to and from the PC. The apparatus may be situated inside the personal computer or as a separate unit.

Fig. 7

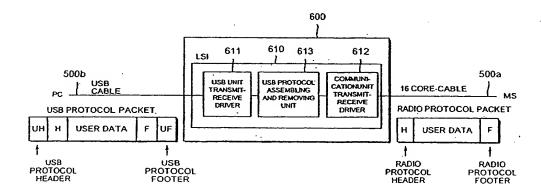
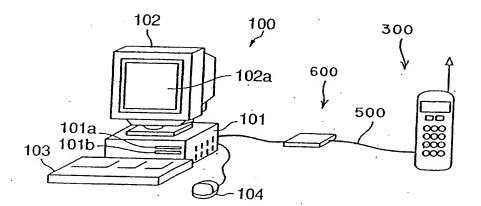


Fig. 1



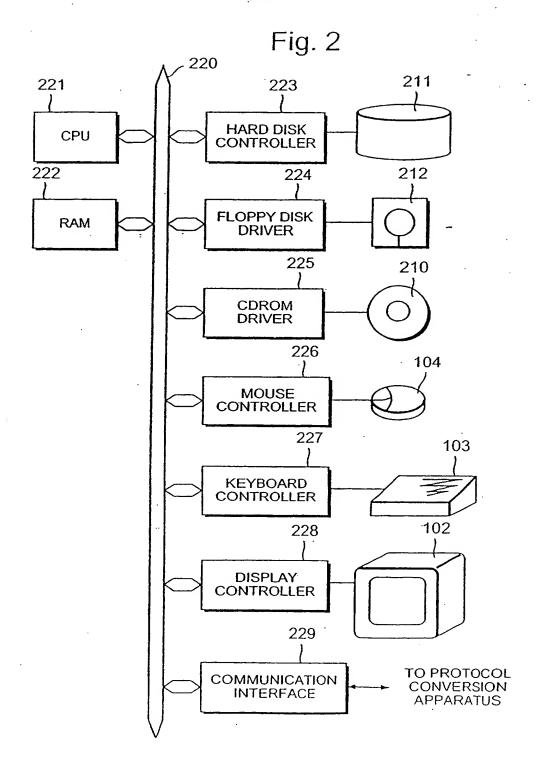
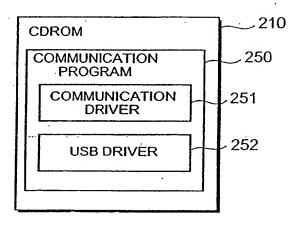


Fig. 3



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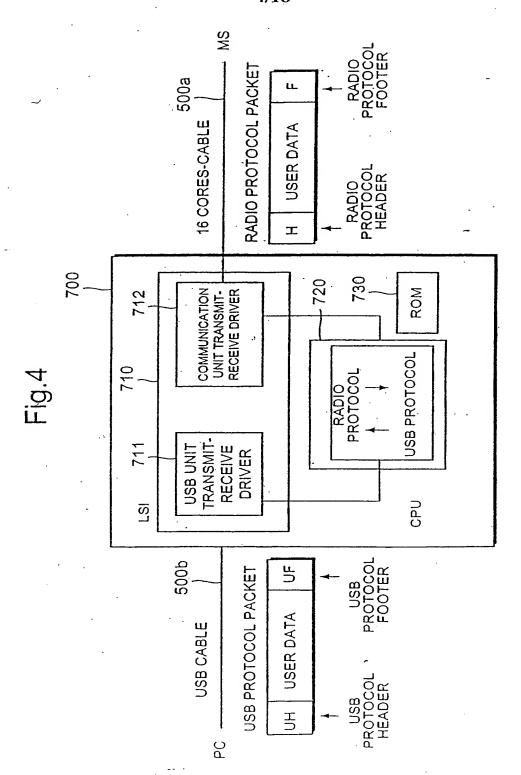


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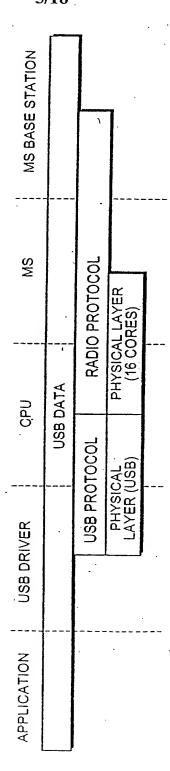
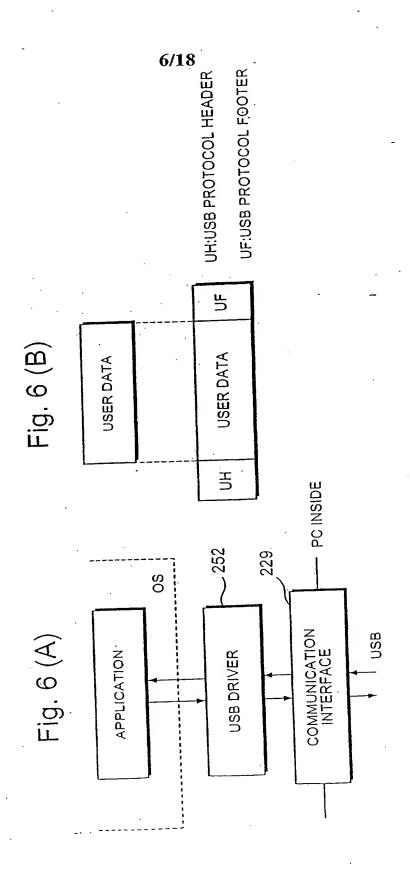
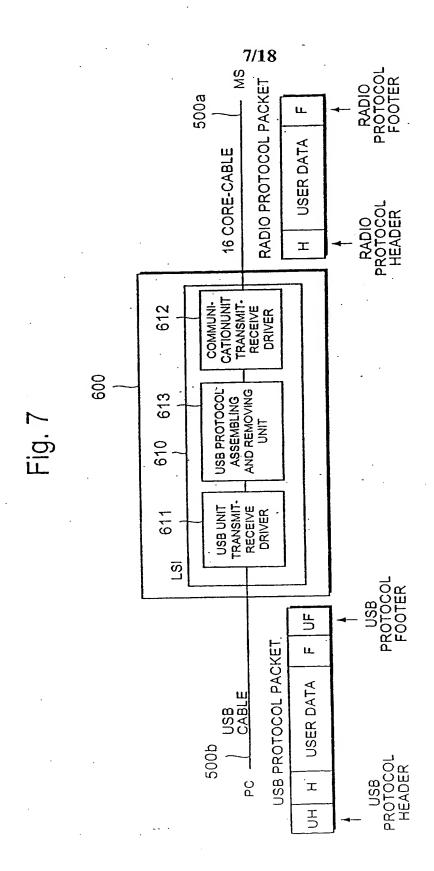


Fig. 5

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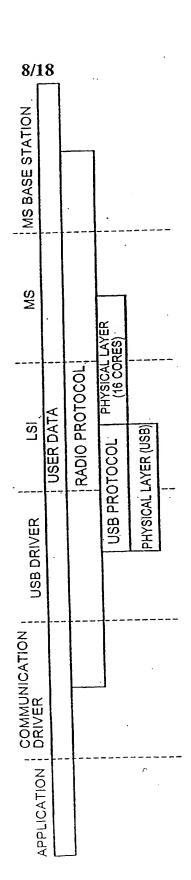




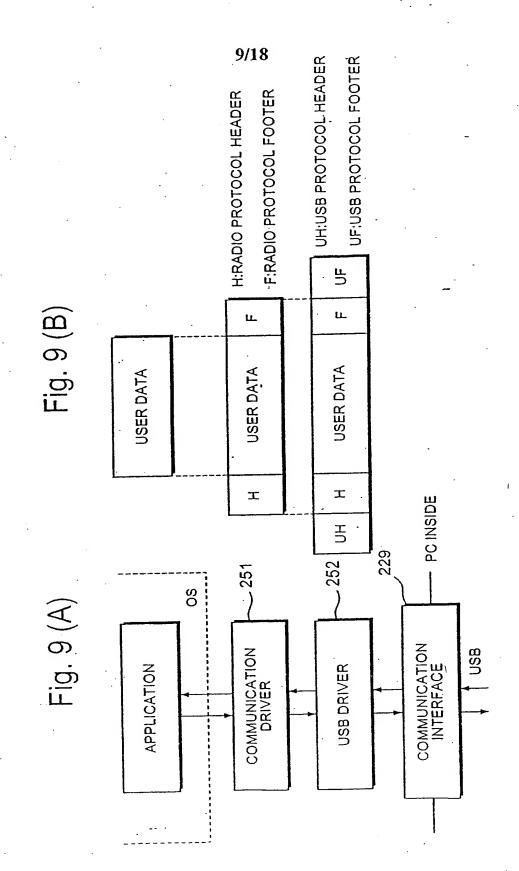
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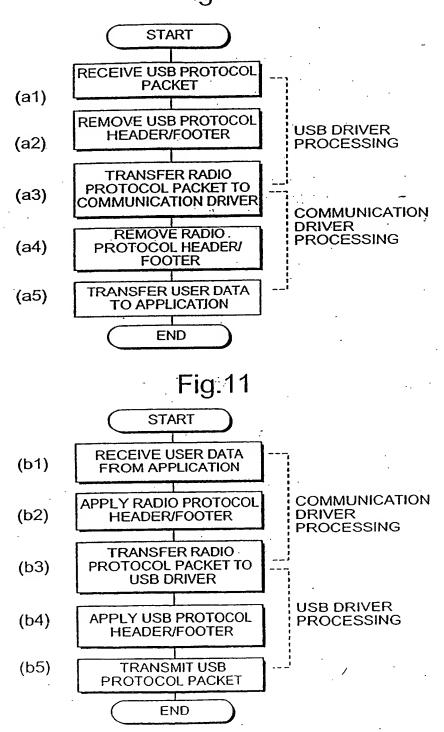


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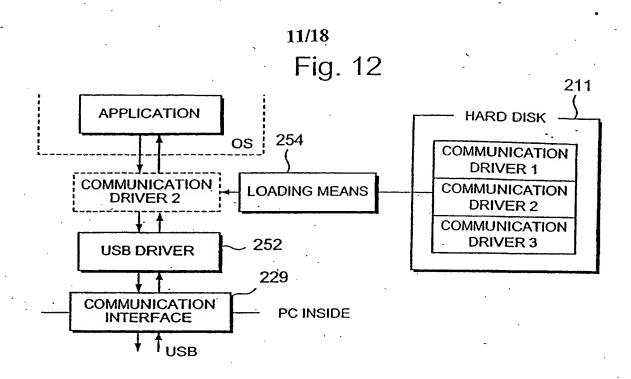


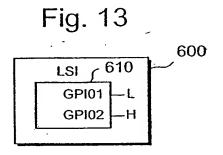
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10/18 Fig. 10



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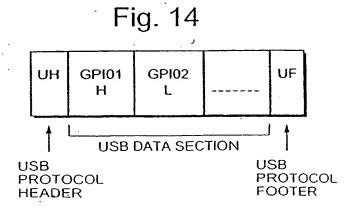
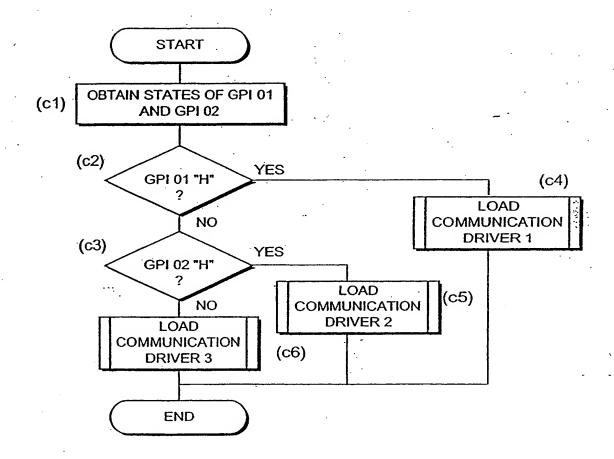
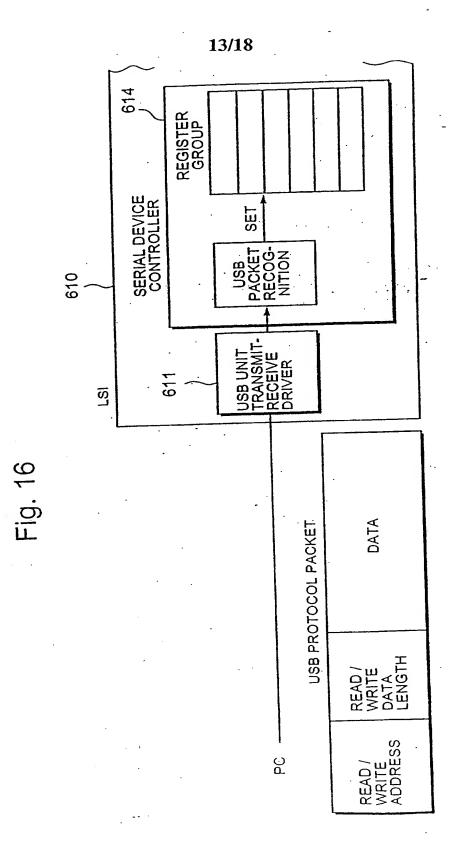


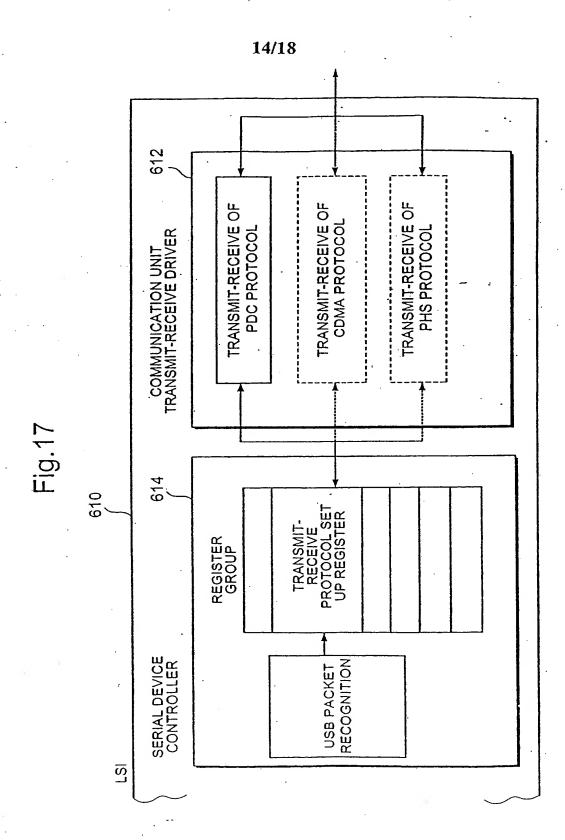
Fig. 15





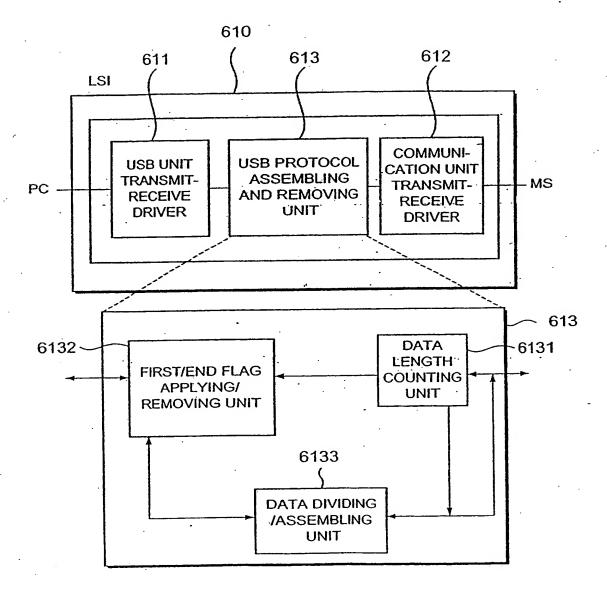
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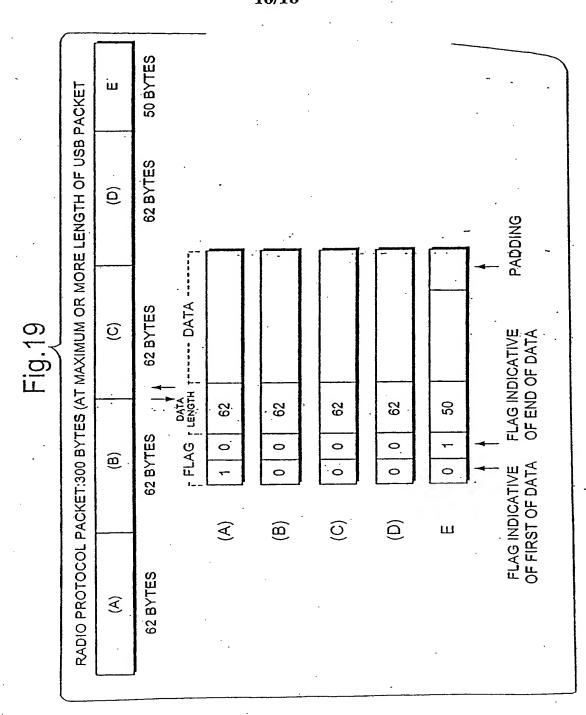
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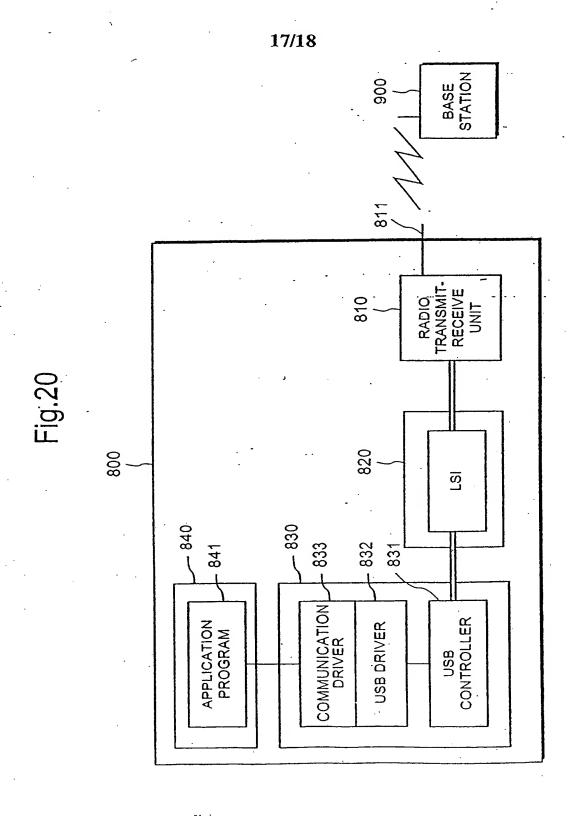
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Fig.18



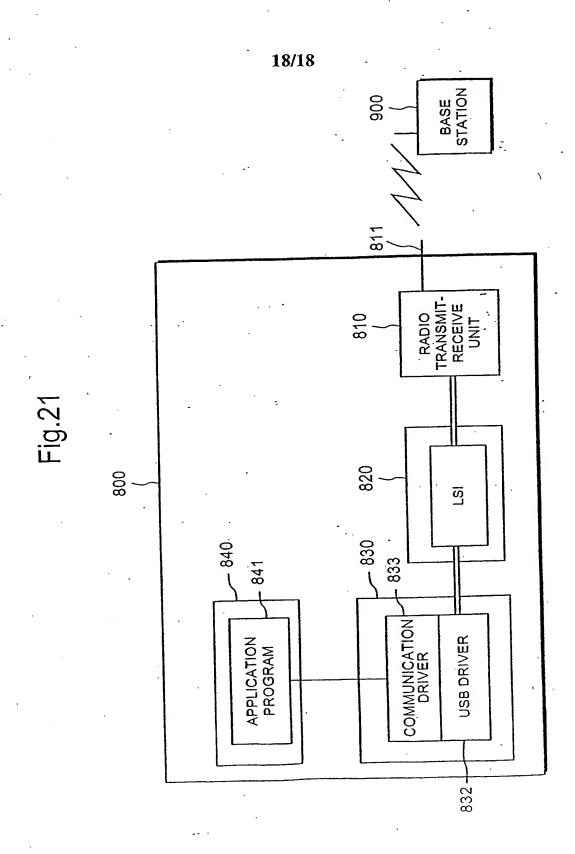






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